

What is claimed is:

- 1           1.       A washing machine control method, comprising steps of:  
2           executing a dewatering step;  
3           accelerating a motor to rotate a drum, according to a predetermined rate, in response  
4           to said dewatering execution step;  
5           detecting, if the predetermined rate exceeds a first value but is less than a second  
6           value, whether a state of vibration exists with respect to the drum rotated according to the  
7           predetermined rate; and  
8           stopping the motor if the detected state of vibration exists.
- 1           2.       The method as claimed in claim 1, wherein said accelerating step is repeated  
2           until a desired dewatering speed is reached.
- 1           3.       The method as claimed in claim 1, further comprising a step of stopping the  
2           motor if the detected eccentricity value exceeds the reference eccentricity value.
- 1           4.       The method as claimed in claim 1, further comprising a step of incrementing  
2           the predetermined rate if it is determined that no state of vibration exists with respect to the  
3           drum rotated according to the predetermined rate.
- 1           5.       The method as claimed in claim 4, wherein the predetermined rate is  
2           incremented according to data stored in the lookup table.

1           6.       The method as claimed in claim 1, further comprising steps of:

2           detecting an eccentricity value with respect to the drum rotated according to the  
3       predetermined rate; and

4           comparing the detected eccentricity value to a reference eccentricity value stored in a  
5       lookup table.

1           7.       The method as claimed in claim 6, further comprising a step of incrementing

2       the predetermined rate if it is determined that the detected eccentricity value is less than the  
3       reference eccentricity value and that no state of vibration exists with respect to the drum  
4       rotated according to the predetermined rate.

1           8.       The method as claimed in claim 2, wherein the first value of the

2       predetermined rate is 150 rpm and the second value of the predetermined rate is 300 rpm.

1           9.       A washing machine comprising:

2           a motor to rotate a drum according to a predetermined rate;

3           means for detecting whether a state of vibration exists with respect to the rotating  
4       drum; and

5           a microcomputer having a lookup table, coupled to said vibration state detection  
6       means, for controlling the predetermined rate of said motor and for stopping said motor if the  
7       detected eccentricity value exceeds a reference eccentricity value stored in the lookup table or  
8       if the detected state of vibration exists.

1           10.      The washing machine as claimed in claim 9, further comprising:

2 means, coupled to said microcomputer, for detecting eccentricity value with respect  
3 to the rotating drum.

1 11. The washing machine as claimed in claim 10, wherein said microcomputer  
2 stops said motor if the detected eccentricity value exceeds a reference eccentricity value  
3 stored in the lookup table.